Roll No. .....

**Total Pages : 03** 

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# GSM/M-21

### ZOOLOGY

#### Paper I

Life and Diversity of Chordates-II

Time : Three Hours]

[Maximum Marks : 40

- Note : Attempt *Five* questions in all. Q. No. 1 is compulsory. Attempt *two* questions each from Section A and Section B. Support your answer with neat and labelled diagram(s) wherever necessary.
- 1. Explain the following terms in about 20 words each :
  - (a) Bidder's canal
  - (b) Down feathers
  - (c) Diastema
  - (d) Pterosaurs
  - (e) Furcula
  - (f) Spiral valve
  - (g) Hemipenes
  - (h) Arbor vitae
  - (i) Metachrosis
  - (j) Migration.

1×10=10

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#### Section A

2.	Write n	notes on the following :
	(a) L	aryngo-tracheal chamber of Frog 3
	(b) P	arental care in amphibians. $4\frac{1}{2}$
3.	(a) D	braw well labelled diagram of V.S. Eye of
	Н	lemidactylus. 4 <sup>1</sup> / <sub>2</sub>
	(b) E	nlist the differences between poisonous and non-
	p	oisonous snakes. 3
4.	(a) D	bescribe evolutionary tree of amphibians. 3
	(b) E	xplain pulmonary respiration in Frog. 4 <sup>1</sup> / <sub>2</sub>
5.	Describe the internal structure of heart of Hemidactylus.	
		7½

## Section B

6.	Explain the digestive system of Pigeon.					
7.	Write short notes on the following :					
	(a) Air sacs in Pigeon	31/2				
	(b) Morphological Adaptations for flight i	n Birds.				
		4				
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8.	(a)	Describe Adaptive Radiations in Eutherians.	31/2
	(b)	Draw well labelled diagram of Female Reproduc	tive
		System of Rat.	4

9.	Classify the class Mammalia upto Order level giving	the
	characters and examples of each group.	71⁄2

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